June 2008



#### DEPARTMENT OF EDUCATION

2007–2008 School Year Reports

Dear School Board Members and School Personnel:

The Maine Educational Assessment (MEA) is the State's measure of student progress in achieving the State standards known as *Learning Results*, adopted by the Maine Legislature in 1997. These *Learning Results* established goals for what all students should know and be able to do at certain times in their school careers and are the basis for Grade Level/Span Expectations, which describe the assessment standards for each grade. The MEA is administered to students in all grades 3 through 8 to meet state assessment requirements and the requirements of the federal *No Child Left Behind* Act.

The 2007-2008 MEA summary reports contain the results of student achievement in reading and mathematics at all grades, science and technology at grades 4 and 8, and writing at grade 5 based on achievement standards set in 2006 and disaggregated by student and school characteristics. This report, together with MEA individual student and subject-specific class analysis reports, provides support for use in program evaluation and planning.

MEA results reflect scores based on test questions that are taken in common by the approximately 15,000 students in each grade level. Students' scores in each content area are based on answers to a combination of multiple-choice questions and questions that require students to construct an answer. The grade 5 writing reports provide information on a student's ability to respond to a prompt measuring narrative writing. More information about the design of the MEA is available at www.maine. gov/education/mea/index.htm.

I look forward to working with you in support of our continued efforts to improve the quality and effectiveness of the instructional opportunities designed to help all students achieve the high standards of the *Learning Results* and demonstrate that achievement through performance on the Maine Educational Assessment.

Sincerely,

Susan A. Gendron

Commissioner of Education

Susan A. Lendron



### School Report Grade 4

Test Date:	March	2008
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Code: 12651796

SAU: MSAD 74

School: Embden Elementary School

#### **Contents of the Report**

The report is divided into two main sections including a section describing the students tested and a separate section for the results in each content area.

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### **SUMMARY OF SCORES**

Test Date: March 2008

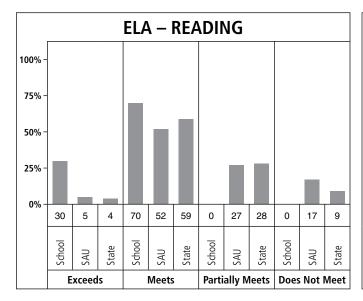
Grade:

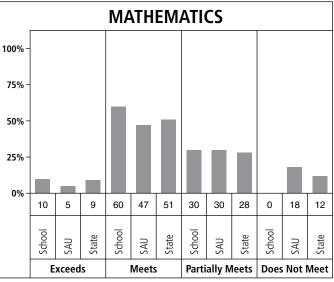
SAU: MSAD 74

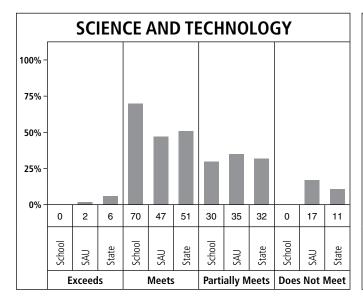
School: Embden Elementary School

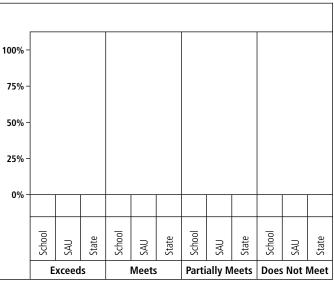
# Summary of School, SAU, and State Scores

Year	Avera	age Scaled	Score
ieai	School	SAU	State
ELA – Reading 2005–2006 2006–2007 <b>2007–2008</b> Cum. Avg.*	446 445 <b>458</b> 450	445 442 <b>443</b> 443	444 445 <b>445</b> 445
Mathematics 2005–2006 2006–2007 <b>2007–2008</b> Cum. Avg. *	450 452 <b>451</b> 451	447 442 <b>442</b> 444	444 445 <b>445</b> 445
Science & Technology 2005–2006 2006–2007 <b>2007–2008</b> Cum. Avg.*	447 440 <b>446</b> 444	445 442 <b>440</b> 442	444 444 <b>444</b> 444









<sup>\*</sup>Cumulative averages are weighted, i.e., the scaled scores are averaged proportionally based on the numbers of students in each year.



### **SUMMARY OF STUDENT PARTICIPATION**

Test Date: March 2008

Grade:

SAU: MSAD 74

School: Embden Elementary School

		En	rol	lme	nt¹								C	ON.	TEI	TI.	AR	EΑ	PA	RT	ICI	IPA	TIO	N <sup>2</sup>				
CATEGORY OF	c	during	g test	ing w	vindo	w			ELA-I	Readin	g				Mathe	matics	;			Scien	ce and	d Tech	nology					
PARTICIPATION	Sc	hool	S	AU	Sta	ate	Sc	hool	S	AU	St	ate	Scl	nool	S	AU	St	ate	Scl	hool	S	SAU	Sta	ate	Scl	nool	SAU	State
	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	n %	n %
Total number of students	10	100	70	100	14207	100	10	100	69	100	14181	100	10	100	69	100	14123	100	10	100	69	100	14115	99				
Ethnicity African American/Black	0	0	0	0	390	3	0	0	0	0	388	99	0	0	0	0	388	99	0	0	0	0	386	99				
American Indian or Native Alaskan	0	0	1	1	101	1	0	0	1	100	101	100	0	0	1	100	101	100	0	0	1	100	101	100				
Asian or Pacific Islander	0	0	1	1	263	2	0	0	1	100	259	98	0	0	1	100	262	100	0	0	1	100	262	100				
Hispanic	0	0	1	1	170	1	0	0	1	100	168	99	0	0	1	100	166	98	0	0	1	100	166	98				
Caucasian/White	10	100	67	96	13282	93	10	100	66	100	13264	100	10	100	66	100	13205	100	10	100	66	100	13199	99				
Not Reported	0	0	0	0	1	0	0	0	0	0	1	100	0	0	0	0	1	100	0	0	0	0	1	100				
Identified disability	1	10	13	19	2524	18	1	100	12	100	2514	100	1	100	12	100	2498	99	1	100	12	100	2494	99				
Current LEP	0	0	0	0	385	3	0	0	0	0	377	98	0	0	0	0	383	99	0	0	0	0	380	99				
Economically disadvantaged	4	40	35	50	5587	39	4	100	34	100	5569	100	4	100	34	100	5538	99	4	100	34	100	5534	99				
Migrant	0	0	0	0	5	0	0	0	0	0	5	100	0	0	0	0	5	100	0	0	0	0	5	100				

MODE OF		ELA-Readi	ng		Mathematic	s	Scie	nce and	l Techr	nology						
	School	SAU	State	School	SAU	State	School	SA	AU	Sta	ate	Scho	ol	SAU	Str	tate
PARTICIPATION <sup>3</sup>	n %	n %	n %	n %	n %	n %	n %	n	%	n	%	n	%	n %	n	%
Participation without accommodations	6 60	46 66	10755 76	6 60	49 70	10730 76	6 60	49	70	10776	76					
Identified disability (PET/IEP)	0 0	1 2	375 3	0 0	1 2	374 3	0 0	1	2	384	4					
LEP	0 0	0 0	148 1	0 0	0 0	148 1	0 0	0	0	150	1					
504 plan	0 0	0 0	114 1	0 0	0 0	114 1	0 0	0	0	115	1					
Participation with accommodations	4 40	20 29	3298 23	4 40	17 24	3267 23	4 40	17	24	3215	23					
Identified disability (PET/IEP)	1 25	8 40	2013 61	1 25	8 47	1998 61	1 25	8	47	1986	62					
LEP	0 0	0 0	225 7	0 0	0 0	233 7	0 0	0	0	229	7					П
504 plan	0 0	0 0	69 2	0 0	0 0	68 2	0 0	0	0	67	2					
Other	3 75	12 60	1046 32	3 75	9 53	1023 31	3 75	9	53	987	31					
Participation through alternate assessment (PAAP)	0 0	3 4	126 1	0 0	3 4	126 1	0 0	3	4	124	1					
Identified disability (PET/IEP)	0 0	3 100	126 100	0 0	3 100	126 100	0 0	3	100	124	100					
LEP	0 0	0 0	2 2	0 0	0 0	2 2	0 0	0	0	1	1					П
504 plan	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	0	0	0					
Approved non-participation in reading – 1st year LEP	0 0	0 0	2 0													
Approved non-participation – special consideration	0 0	1 1	15 0	0 0	1 1	16 0	0 0	1	1	12	0					
Non-participation – other	0 0	0 0	11 0	0 0	0 0	68 0	0 0	0	0	80	1					

<sup>1</sup> Percents are the percentage of students enrolled in each participation category.

<sup>2</sup> Percents are the percentage of students, including those who participated through alternate assessment (PAAP), who participated in the content area.

**<sup>3</sup>** Percents are the percentage of students in each content area by mode.



### **ELA-READING RESULTS**

Test Date: March 2008

Grade:

SAU: MSAD 74

School: Embden Elementary School

STUDENTS AT EACH ACHIEVEMENT LEVEL

ACHIEVEMENT LEVEL DEFINITIONS		Sch	ool	SA	AU	Sta	ate
The quality of a student's work at each achievement level reflects progress in attaining Maine's Gra Level Expectations in English language arts – reading.	ade	N	%	N	%	N	%
Execute the Standards The Stadent's work demonstrates the definity to read and interpret interface	005-2006	1 0	10 0	2 0	3 0	601 507	4 4

<b>Exceeds the Standards</b> – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing in-depth inferences, analyzing texts for subtle clues, synthesizing information across texts, and using his/her knowledge of text features and literary devices to make deeper connections within or across texts to increase comprehension. (scaled score 461–480)	2005-2006	1	10	2	3	601	4
	2006-2007	0	0	0	0	507	4
	<b>2007-2008</b>	<b>3</b>	<b>30</b>	<b>3</b>	<b>5</b>	<b>559</b>	<b>4</b>
	Cum. Total*	4	13	5	3	1667	4
Meets the Standards – The student's work demonstrates the ability to read and interpret literary and informational texts appropriate for the grade level by drawing inferences, summarizing main ideas and providing supporting details, connecting ideas within and across texts, and using his/her knowledge of text features and literary devices to increase comprehension. (scaled score 441–460)	2005-2006	5	50	39	65	7910	57
	2006-2007	6	60	31	51	8749	63
	<b>2007-2008</b>	<b>7</b>	<b>70</b>	<b>34</b>	<b>52</b>	<b>8308</b>	<b>59</b>
	Cum. Total*	18	60	104	56	24967	60
Partially Meets the Standards – The student's work demonstrates an inconsistent ability to read and interpret literary and informational texts appropriate for the grade level. The student's ability to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, and use his/her knowledge of text features and literary devices varies depending on the texts. (scaled score 431–440)	2005-2006	3	30	15	25	3970	29
	2006-2007	4	40	22	36	3467	25
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>18</b>	<b>27</b>	<b>3922</b>	<b>28</b>
	Cum. Total*	7	23	55	29	11359	27
Does Not Meet the Standards – The student's work demonstrates a limited ability to read and interpret literary and informational texts appropriate for the grade level. The student's responses are often vague or incorrect leaving the impression that the student found it difficult to draw inferences, summarize main ideas and provide supporting details, connect ideas within and across texts, or use his/her knowledge of text features and literary devices to support comprehension. (scaled score 400–430)	2005-2006	1	10	4	7	1421	10
	2006-2007	0	0	8	13	1165	8
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>11</b>	<b>17</b>	<b>1264</b>	<b>9</b>
	Cum. Total*	1	3	23	12	3850	9

		nber	Average Points Attained (Number and Percent)													
Learning Results Content Standard Cluster		oints sible	Sch	iool	S	ΑU	Sta	ite								
	N	%	N	%	N	%	N	%								
Total Reading Cluster	48	100	38.8	80.8	28.2	58.8	29.7	61.9								
Literary Text	24	50	19.7	82.1	14.5	60.4	15.5	64.6								
Informational Text	24	50	19.1	79.6	13.7	57.1	14.2	59.2								

The Maine Learning Results reading cluster includes Content Standards A (Process of Reading), B (Literature and Culture), and D (Informational Texts). The MEA assesses students' reading skills based on questions related to two types of reading passages: literary and informational. Passages include both long and short texts, selected from developmentally appropriate works. Items on the MEA measure Grade Level Expectations, based on Maine's 1997 Learning Results, which can be found at http://www.maine.gov/education/lsalt/gles.htm.



# **ELA-READING RESULTS**

(CONTINUED)

Test Date: March 2008

Grade:

SAU: MSAD 74

School: Embden Elementary School

·						nool							SZ	AU					Sta	ate		
REPORTING					<b>J</b> CI								; ;	10					J.(			Τ
CATEGORIES	Tested		E		М		P		D	Mean Scaled Score	Tested	E	М	P	D	Mean Scaled Score	Tested	E	М	Р	D	Mean Scaled Score
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	Score
All Students	10	3	30	7	70	0	0	0	0	458	66	5	52	27	17	443	14053	4	59	28	9	445
Ethnicity African American/Black American Indian or Native Alaskan Asian or Pacific Islander Hispanic Caucasian/White Not Reported	0 0 0 0 10	3	30	7	70	0	0	0	0	458	0 1 1 1 63 0	5	51	27	17	443	384 101 259 164 13144 1	1 1 6 0 4	36 46 61 45 60	35 44 22 38 28	28 10 11 16 8	438 442 445 440 445
Identified disability Yes No	1 9	3	33	6	67	0	0	0	0	459	9 57	0 5	22 56	33 26	44 12	436 444	2388 11665	0 5	29 65	44 25	26 6	437 446
Current LEP Yes No	0	3	30	7	70	0	0	0	0	458	0 66	5	52	27	17	443	373 13680	1 4	32 60	35 28	32 8	436 445
Economically disadvantaged Yes No	4 6	2	33	4	67	0	0	0	0	460	31 35	3	39 63	32 23	26 9	439 446	5502 8551	1 6	47 67	37 22	14 5	441 447
Migrant Yes No	0 10	3	30	7	70	0	0	0	0	458	0 66	5	52	25 27	17	443	5 14048	0 4	40 59	60 28	0 9	445 445
Gender Female Male Not Reported	9 1 0	2	22	7	78	0	0	0	0	458	35 31 0	6 3	54 48	23 32	17 16	445 442	6959 7093 1	5 3	61 57	26 30	8 10	446 444
Title 1A targeted program Yes No	3 7	3	43	4	57	0	0	0	0	461	18 48	0 6	33 58	44 21	22 15	440 444	1890 12163	0 5	37 63	46 25	17 8	439 446
Gifted/talented program Yes No	0	3	30	7	70	0	0	0	0	458	0 66	5	52	27	17	443	266 13787	21 4	74 59	4 28	0	456 445

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards



# **ELA-READING RESULTS**

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade:

SAU: MSAD 74

School: **Embden Elementary School** 

					Sch	ool							SA	U					Sta	ite		
QUESTIONNAIRE ITEMS	Students in Each Category		E	ı	М		P	Γ	)	Mean Scaled Score	Students in Each Category	E	М	P	D	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%	Jeore	%	%	%	%	%	30010	%	%	%	%	%	1
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	0 90 0 10	2	22 100	7	78 0	0	0	0	0	458 464	8 69 15 8	0 4 0 20	60 56 60 0	40 24 40 20	0 16 0 60	445 445 443 438	5 74 18 2	1 4 5 3	42 62 59 32	36 27 29 34	21 7 7 31	440 445 446 438
How well do the questions that you have just been given on this MEA test match what you have learned in school about reading?  A. The questions on the test match what I have learned in reading class.  B. They match some of what I have learned.  C. They match just a little of what I have learned.  D. There is no match.	20 80 0	1 2	50 25	1 6	50 75	0 0	0 0	0	0 0	460 458	23 57 18 2	7 5 0 0	53 59 25 100	40 19 42 0	0 16 33 0	447 445 437 448	30 52 12 5	6 4 2 0	63 63 46 33	24 27 37 40	7 6 15 26	446 446 441 437
Which of the following best describes how you rate yourself as a student in reading?  A. very good B. good C. fair D. poor	50 40 10 0	2 1 0	40 25 0	3 3 1	60 75 100	0 0 0	0 0 0	0 0 0	0 0 0	458 459 454	28 48 18 6	11 3 0 0	50 61 33 50	22 26 42 25	17 10 25 25	446 445 438 438	35 51 12 2	7 3 1 0	66 60 44 23	20 29 40 47	6 7 16 30	448 445 440 436
How hard was the reading part of this test? A. harder than my regular schoolwork B. about the same as my regular schoolwork C. easier than my regular schoolwork	0 100 0	3	30	7	70	0	0	0	0	458	9 70 20	0 7 0	67 51 54	0 31 31	33 11 15	442 445 442	19 62 18	2 5 3	46 64 58	34 26 29	17 5 10	442 446 444
How hard were the reading passages on this test?  A. Most of the passages were more difficult than what I usually read.  B. Most of the passages were about the same as what I usually read.  C. Most of the passages were easier than what I usually read.	0 60 40	2	33 25	4 3	67 75	0	0 0	0	0 0	459 457	11 55 34	0 6 5	43 47 64	29 33 18	29 14 14	439 443 446	14 52 33	0 3 7	32 62 68	46 28 20	22 7 5	438 445 448
How much time do you spend reading at home each day?  A. more than one hour  B. 20 minutes to an hour  C. less than 20 minutes  D. I rarely read at home.	30 40 10 20	0 2 0 1	0 50 0 50	3 2 1 1	100 50 100 50	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	454 462 454 460	20 42 15 23	0 7 0 7	69 56 70 20	23 30 10 40	8 7 20 33	445 446 445 438	18 55 14 13	7 4 2 1	64 64 53 44	22 26 33 39	7 6 12 16	447 446 443 441
How many pages do you read in school and to complete homework assignments?  A. five or fewer pages B. six to ten pages C. eleven or more pages	40 50 10	1 1 1	25 20 100	3 4 0	75 80 0	0 0 0	0 0 0	0 0 0	0 0 0	459 456 464	37 35 28	4 4 6	33 52 78	42 26 11	21 17 6	441 444 448	23 25 52	3 3 5	50 60 64	34 29 24	13 8 6	442 444 446
Optional school/SAU question A. B. C. D.	0 100 0 0	0	0	1	100	0	0	0	0	454	0 100 0 0	0	100	0	0	454						

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards N = Number



### **MATHEMATICS RESULTS**

Test Date: March 2008

Grade:

SAU: MSAD 74

School: Embden Elementary School

#### STUDENTS AT EACH ACHIEVEMENT LEVEL

ACHIEVEMENT LEVEL DEFINITIONS		Sch	ool	SA	AU	Sta	te
The quality of a student's work at each achievement level reflects progress in attaining Maine's Level Expectations in mathematics.	s Grade	N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in mathematics, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information; analyze and solve difficult problems, including developing and implementing strategies, efficiently and accurately performing procedures, and recording and justifying solutions; and explain complex concepts. (scaled score 461–480)	2005-2006 2006-2007 <b>2007-2008</b> Cum. Total*	1 1 1 3	10 10 <b>10</b> 10	6 3 <b>3</b> 12	10 5 <b>5</b> 6	1294 1054 <b>1321</b> 3669	9 8 <b>9</b> 9
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in mathematics, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve problems including developing and implementing strategies, to perform procedures, and to record and explain solutions and concepts. The student's work may contain minor errors. (scaled score 441–460)	2005-2006 2006-2007 <b>2007-2008</b> Cum. Total*	7 9 <b>6</b> 22	70 90 <b>60</b> 73	34 28 <b>31</b> 93	56 46 <b>47</b> 49	7000 7394 <b>7079</b> 21473	50 53 <b>51</b> 51
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in mathematics and inconsistent connections among central ideas. The student's responses demonstrate some ability to analyze and solve problems, and explain concepts. Problem solving strategies may be flawed, procedures performed inaccurately, methods not recorded and/or problems not completed. (scaled score 429–440)	2005-2006 2006-2007 <b>2007-2008</b> Cum. Total*	2 0 <b>3</b> 5	20 0 <b>30</b> 17	16 18 <b>20</b> 54	26 30 <b>30</b> 29	3784 3729 <b>3955</b> 11468	27 27 <b>28</b> 27
Does Not Meet the Standards – The student's work demonstrates limited understanding of essential concepts in mathematics and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and explain concepts. Problem solving strategies and procedures are often flawed or inappropriate and there may be many omissions. (scaled score 400–428)	2005-2006 2006-2007 <b>2007-2008</b> Cum. Total*	0 0 <b>0</b>	0 0 <b>0</b> 0	5 12 <b>12</b> 29	8 20 <b>18</b> 15	1894 1735 <b>1642</b> 5271	14 12 <b>12</b> 13

	1	nber	Avera	ge Point	s Attaine	d (Numbe	r and Pe	rcent)
Learning Results Content Standard Clusters		oints sible	Sch	iool	SA	<b>AU</b>	St	ate
	N	%	N	%	N	%	N	%
Cluster 1: Numbers and Operations	15	31	10.9	72.7	8.8	58.7	9.5	63.3
Cluster 2: Shape and Size	14	29	9.5	67.9	8.7	62.1	9.1	65.0
Cluster 3: Mathematical Decision Making	5	10	4.1	82.0	3.2	64.0	3.4	68.0
Cluster 4: Patterns	14	29	10.9	77.9	9.0	64.3	9.7	69.3

#### **Cluster 1: Numbers and Operations**

- A. Numbers and Number Sense
- B. Computation
- I. Discrete Mathematics (grades 3 and 4 only)

#### Cluster 2: Shape and Size

- E. Geometry
- F. Measurement

#### **Cluster 3: Mathematical Decision Making**

- C. Data Analysis and Statistics
- D. Probability

#### **Cluster 4: Patterns**

- G. Patterns, Relations, and Functions
- H. Algebra Concepts
- K. Mathematical Communication

Each content standard in the clusters above is defined in Maine's 1997 *Learning Results*, which are the basis for Grade Level Expectations. Each item on the MEA measures a grade level expectation, which can be found at http://www.maine.gov/education/lsalt/gles.htm.

<sup>\*</sup>Percentages are calculated by dividing the cumulative total of the number of students in the achievement level by the cumulative total of the number of students tested.



# **MATHEMATICS RESULTS**

(CONTINUED)

Test Date: March 2008

Grade:

SAU: MSAD 74

School: Embden Elementary School

*		School											SA	111		State								
REPORTING					<b>J</b> CI								<i>3,</i>	10	i				<u> </u>	110	i	Т		
CATEGORIES	Tested		E		М		P	ı	D	Mean Scaled Score	Tested	E	М	P	D	Mean Scaled Score	Tested	E	М	P	D	Mean Scaled Score		
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	_ Score		
All Students	10	1	10	6	60	3	30	0	0	451	66	5	47	30	18	442	13997	9	51	28	12	445		
Ethnicity African American/Black American Indian or Native Alaskan Asian or Pacific Islander Hispanic Caucasian/White Not Reported	0 0 0 0 10	1	10	6	60	3	30	0	0	451	0 1 1 1 63 0	5	46	30	19	442	386 101 262 162 13085	4 3 14 4 10	26 46 51 41 51	34 41 23 34 28	36 11 12 21 11	434 442 447 440 446		
Identified disability Yes No	1 9	1	11	5	56	3	33	0	0	452	9 57	11 4	22 51	33 30	33 16	435 443	2372 11625	3 11	31 54	36 27	30 8	436 447		
Current LEP Yes No	0	1	10	6	60	3	30	0	0	451	0 66	5	47	30	18	442	381 13616	4 10	33 51	28 28	35 11	435 445		
Economically disadvantaged Yes No	4 6	1	17	3	50	2	33	0	0	452	31 35	0 9	39 54	32 29	29 9	436 447	5472 8525	5 13	41 56	35 24	19 7	440 448		
Migrant Yes No	0 10	1	10	6	60	3	30	0	0	451	0 66	5	47	30	18	442	5 13992	0 9	80 51	20 28	0 12	448 445		
Gender Female Male Not Reported	9 1 0	1	11	5	56	3	33	0	0	451	35 31 0	6 3	46 48	34 26	14 23	443 440	6933 7063 1	9 10	50 51	29 27	12 11	445 446		
Title 1A targeted program Yes No	3 7	1	14	5	71	1	14	0	0	456	18 48	0 6	28 54	39 27	33 13	434 445	1890 12107	2 11	34 53	41 26	23 10	438 446		
Gifted/talented program Yes No	0	1	10	6	60	3	30	0	0	451	0 66	5	47	30	18	442	266 13731	45 9	49 51	5 29	0 12	461 445		

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards

**NOTE:** Some achievement level results have been left blank because fewer than five (5) students were tested.

I = Number



# **MATHEMATICS RESULTS**

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade:

SAU: MSAD 74

**Embden Elementary School** School:

					Sch	ool						State										
QUESTIONNAIRE ITEMS	Students in Each Category	1	E	ı	М		P	I	)	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score	Students in Each Category	E	М	Р	D	Mean Scaled Score
	%	N	%	N	%	N	%	N	%	-	%	%	%	%	%	1	%	%	%	%	%	1
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	0 90 0 10	1 0	11 0	5	56 100	3	33 0	0	0	451 454	8 69 15 8	0 7 0 0	60 47 60 20	40 31 30 20	0 16 10 60	446 443 444 433	5 74 18 2	6 10 10 5	34 52 52 33	33 28 28 28	27 10 10 34	438 446 446 436
How well do the questions that you have just been given on this MEA test match what you have learned in school about mathematics?  A. The questions on the test match what I have learned in mathematics	40	0	0	3	75	1	25	0	0	452	37	4	50	29	17	444	38	13	56	23	8	448
class.  B. They match some of what I have learned.  C. They match just a little of what I have learned.  D. There is no match.	60 0 0	1	17	3	50	2	33	0	0	451	54 6 3	6 0 0	49 25 50	34 25 0	11 50 50	443 434 423	48 10 4	8 4 2	52 35 25	29 39 33	10 22 40	445 439 433
Which of the following best describes how you rate yourself as a student in mathematics?  A. very good  B. good  C. fair	40 40 20	0 1 0	0 25 0	3 2 1	75 50 50	1 1 1	25 25 50	0 0	0 0 0	452 455 442	34 48 15	5 6 0	55 42 50	23 32 40	18 19 10	443 443 441	35 48 14	16 7 3	55 52 41	20 31 38	8 11 18	449 445 440
D. poor	0										3	0	50	50	0	437	3	1	29	36	34	435
How hard was the mathematics part of this test?  A. harder than my regular schoolwork  B. about the same as my regular schoolwork  C. easier than my regular schoolwork	22 67 11	0 0 0	0 0 0	1 4 1	50 67 100	1 2 0	50 33 0	0 0 0	0 0 0	447 448 454	16 64 20	0 2 8	30 51 54	20 37 23	50 10 15	434 443 445	15 64 21	4 10 13	38 54 52	33 28 24	25 9 11	439 446 447
How often do you use hands-on materials in mathematics class?  A. almost every day  B. two or three days a week  C. two or three times each month  D. never or almost never	20 20 20 20 40	0 0 0 1	0 0 0 25	1 0 2 3	50 0 100 75	1 2 0 0	50 100 0 0	0 0 0 0	0 0 0 0	450 439 448 460	35 25 22 18	0 6 0 17	48 50 57 33	30 31 29 33	22 13 14 17	440 445 439 447	23 36 25 16	8 11 10 9	47 54 53 46	29 27 27 27 32	16 9 10 13	443 447 446 444
How often do you use calculators in mathematics class? A. almost every day B. two or three days a week C. two or three times each month D. never or almost never	0 10 40 50	1 0 0	100 0 0	0 3 3	0 75 60	0 1 2	0 25 40	0 0 0	0 0 0	474 450 448	2 17 29 52	0 18 0 3	0 64 47 44	0 18 37 32	100 0 16 21	422 453 443 439	5 19 38 38	3 8 11 9	30 50 55 50	33 30 26 29	33 12 8 12	436 445 447 445
On average, how many minutes a day do you spend working on mathematics in class? A. less than 30 minutes B. 30–45 minutes C. 45–60 minutes D. more than 60 minutes	10 50 30 10	0 1 0	0 20 0 0	1 3 1 1	100 60 33 100	0 1 2 0	0 20 67 0	0 0 0 0	0 0 0	452 454 444 456	17 31 34 18	0 10 5 0	36 45 50 58	36 35 32 17	27 10 14 25	438 443 445 442	8 27 38 26	3 6 11 13	33 48 54 55	38 33 26 23	25 13 9	438 443 447 448
Optional school/SAU question A. B. C. D.	0 100 0	0	0	1	100	0	0	0	0	444	0 100 0	0	100	0	0	444						

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards N = Number



### **SCIENCE AND TECHNOLOGY RESULTS**

Test Date: March 2008

Grade:

SAU: MSAD 74

School: Embden Elementary School

STUDENTS AT EACH ACHIEVEMENT LEVEL

ACHIEVEMENT LEVEL DEFINITIONS		Sch	ool	SA	AU	Sta	ite
The quality of a student's work at each achievement level reflects progress in attaining Maine's Span Expectations in science and technology.	s Grade	N	%	N	%	N	%
Exceeds the Standards – The student's work demonstrates in-depth understanding of essential concepts in science, including the ability to make multiple connections among central ideas. The student's responses demonstrate the ability to synthesize information, analyze and solve difficult problems using the processes of scientific inquiry, and explain complex concepts using evidence and proper terminology to support and communicate logical conclusions. (scaled score 461–480)	2005-2006	1	10	4	7	751	5
	2006-2007	0	0	3	5	963	7
	<b>2007-2008</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>882</b>	<b>6</b>
	Cum. Total*	1	3	8	4	2596	6
Meets the Standards – The student's work demonstrates a general understanding of essential concepts in science, including the ability to make connections among central ideas. The student's responses demonstrate the ability to analyze and solve routine problems using the processes of scientific inquiry and explain central concepts with sufficient clarity and accuracy to demonstrate general understanding. (scaled score 441–460)	2005-2006	5	50	32	52	7251	52
	2006-2007	4	40	28	46	6824	49
	<b>2007-2008</b>	<b>7</b>	<b>70</b>	<b>31</b>	<b>47</b>	<b>7130</b>	<b>51</b>
	Cum. Total*	16	53	91	48	21205	51
Partially Meets the Standards – The student's work demonstrates incomplete understanding of essential concepts in science and inconsistent connections among central ideas. The student's responses demonstrate	2005-2006	4	40	22	36	4514	32
	2006-2007	6	60	23	38	4382	32

2007-2008

Cum. Total\*

2005-2006

2006-2007

2007-2008

Cum. Total\*

		nber	Average Points Attained (Number and Percent)											
Learning Results Content Standard Clusters	l .	oints sible	Sch	iool	SA	<b>'</b> U	St	ate						
	N	%	N	%	N	%	N	%						
Cluster 1: Life Sciences	12	25	8.6	71.7	7.3	60.8	8.0	66.7						
Cluster 2: Physical Sciences	12	25	6.6	55.0	6.6	55.0	7.2	60.0						
Cluster 3: Earth and Space Sciences	12	25	7.5	62.5	6.8	56.7	7.4	61.7						
Cluster 4: Nature and Implications of Science	12	25	9.3	77.5	7.3	60.8	7.6	63.3						

some ability to analyze and solve problems using scientific inquiry but the quality of responses is inconsistent.

Does Not Meet the Standards - The student's work demonstrates limited understanding of essential concepts

in science and infrequent or inaccurate connections among central ideas. The student's responses demonstrate minimal ability to solve problems and use the skills of scientific inquiry. There are many inaccuracies and

Explanation of concepts may be incomplete or unclear. (scaled score 429–440)

explanations are illogical, incomplete, or missing. (scaled score 400-428)

#### Cluster 1: Life Sciences

3

13

0

0

0

0

A. Classifying Life Forms

B. Ecology

30

43

0

0

0

23

68

3

7

11

21

35

36

5

11

17

11

4433

13329

1458

1735

1546

4739

C. Cells

#### **Cluster 2: Physical Sciences**

E. Structure of Matter

H. Energy

I. Motion

#### Cluster 3: Earth and Space Sciences

D. Continuity and Change

F. The Earth

G. The Universe

#### **Cluster 4: Nature and Implications of Science**

J. Inquiry and Problem Solving

K. Scientific Reasoning

L. Communication

M. Implications of Science & Technology

Each content standard in the clusters shown is defined in Maine's 1997 Learning Results, which are the basis for science and technology Grade Span Expectations. Each item on the MEA measures a grade span expectation, which can be found at http://www.maine.gov/education/lsalt/gles. htm.

32

32

10

12

11

11



# **SCIENCE AND TECHNOLOGY RESULTS**

(CONTINUED)

Test Date: March 2008

Grade:

SAU: MSAD 74

School: Embden Elementary School

T	(CONTINUED)												Jeno		iiibacii									
					Sch	nool							SA	AU			State							
REPORTING CATEGORIES	Tested	ı	E		М		P		D	Mean Scaled Score	Tested	E	М	Р	D	Mean Scaled Score	Tested	E	М	P	D	Mean Scaled Score		
	N	N	%	N	%	N	%	N	%	Score	N	%	%	%	%	Score	N	%	%	%	%	JCOIE		
All Students	10	0	0	7	70	3	30	0	0	446	66	2	47	35	17	440	13991	6	51	32	11	444		
Ethnicity African American/Black American Indian or Native Alaskan Asian or Pacific Islander Hispanic Caucasian/White Not Reported	0 0 0 0 10	0	0	7	70	3	30	0	0	446	0 1 1 1 63 0	2	48	37	14	441	385 101 262 162 13080 1	2 3 5 2 7	27 44 52 38 52	35 44 28 39 31	36 10 14 21 10	434 441 443 439 444		
<b>dentified disability</b> Yes No	1 9	0	0	6	67	3	33	0	0	445	9 57	0 2	33 49	56 32	11 18	436 441	2370 11621	2 7	32 55	41 30	25 8	437 445		
Current LEP Yes No	0 10	0	0	7	70	3	30	0	0	446	0 66	2	47	35	17	440	379 13612	1 6	25 52	35 32	39 10	433 444		
Economically disadvantaged Yes No	4 6	0	0	4	67	2	33	0	0	446	31 35	3 0	29 63	45 26	23 11	436 444	5470 8521	3 9	41 57	39 27	18 7	440 446		
<b>Migrant</b> Yes No	0	0	0	7	70	3	30	0	0	446	0 66	2	47	35	17	440	5 13986	20 6	20 51	40 32	20 11	443 444		
Gender Female Male Not Reported	9 1 0	0	0	6	67	3	33	0	0	446	35 31 0	0 3	49 45	26 45	26 6	441 440	6929 7061 1	6 7	49 53	33 30	12 10	443 444		
Fitle 1A targeted program Yes No	3 7	0	0	6	86	1	14	0	0	447	18 48	0 2	28 54	44 31	28 13	435 443	1888 12103	1 7	32 54	44 30	23 9	437 445		
Gifted/talented program Yes No	0	0	0	7	70	3	30	0	0	446	0 66	2	47	35	17	440	266 13725	30 6	65 51	5 32	1 11	457 444		

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards



# **SCIENCE AND TECHNOLOGY RESULTS**

(QUESTIONNAIRE ITEMS)

Test Date: March 2008

Grade:

SAU: MSAD 74

**Embden Elementary School** School:

		(402011011111111111111111111111111111111																						
					Sch	ool							SA	U					Sta	ite				
TEMS	Students in Each Category		E	ı	М		P	ı	D	Mean Scaled Score	Students in Each Category	E	М	P	D	Mean Scaled Score	Students in Each Category	E	М	P	D	Mean Scaled Score		
	%	N	%	N	%	N	%	N	%	1	%	%	%	%	%	1	%	%	%	%	%	300.0		
How much homework do you do on school nights? A. none B. less than one hour C. one to two hours D. more than two hours	0 90 0 10	0	0	6	67 100	3	33 0	0	0	446 448	8 69 15 8	0 2 0 0	80 42 70 20	20 38 20 60	0 18 10 20	448 440 444 435	5 74 18 2	4 6 7 4	37 53 52 31	36 31 32 33	22 10 8 32	439 444 445 437		
How well do the questions that you have just been given on this MEA test match what you have learned in school about science?  A. The questions on the test match what I have learned in science class.  B. They match some of what I have learned.  C. They match just a little of what I have learned.  D. There is no match.	0 80 20 0	0	0 0	5 2	63 100	3	38 0	0 0	0 0	446 447	18 52 22 8	0 3 0 0	58 56 29 20	25 29 57 40	17 12 14 40	442 444 437 430	24 49 21 6	9 6 4 2	53 54 47 35	28 31 36 37	10 9 13 25	446 445 442 438		
Which of the following best describes how you rate yourself as a student in science? A. very good B. good C. fair D. poor	20 50 30 0	0 0 0	0 0 0	1 3 3	50 60 100	1 2 0	50 40 0	0 0 0	0 0 0	441 446 451	14 55 23 8	0 3 0	33 53 53 20	44 28 47 40	22 17 0 40	439 442 443 432	25 54 19 3	9 6 3 2	53 55 43 28	27 30 40 42	10 9 15 29	446 445 441 435		
How difficult was the science part of this test?  A. harder than my regular schoolwork  B. about the same as my regular schoolwork  C. easier than my regular schoolwork	20 80 0	0	0	2 5	100 63	0 3	0 38	0	0 0	449 446	17 69 14	0 2 0	36 52 44	55 27 56	9 18 0	439 442 444	22 62 16	5 7 7	45 53 52	35 31 28	15 9 13	442 445 444		
How often do you have science classes? A. every day B. a few times a week C. once a week D. a few times a month	0 40 30 30	0 0 0	0 0 0	2 2 3	50 67 100	2 1 0	50 33 0	0 0 0	0 0 0	442 450 448	46 32 6 15	3 0 0	43 52 75 40	40 24 25 50	13 24 0 10	443 438 451 440	24 53 9 14	7 7 6 5	48 54 46 50	33 31 33 31	12 9 15 14	444 445 442 443		
Which statement best describes how you learn science?  A. I mostly read a textbook and answer questions, and/or take notes and do assignments. I use science kits for demonstrations and experiments.	20	0	0	2	100	0	0	0	0	447	25	0	50	13	38	438	25	5	48	34	13	443		
B. I work in groups to design and conduct experiments.     C. I do a combination of A and B, but mostly A.     D. I do a combination of A and B, but mostly B.  Optional school/SAU question	30 50 0	0	0	1 4	33 80	1	67 20	0	0	442 448	30 30 16	0 0 10	47 58 30	42 37 50	11 5 10	441 445 440	27 26 22	4 7 9	46 56 55	37 28 26	13 8 9	442 445 446		
A. B. C. D.	0 100 0 0	0	0	1	100	0	0	0	0	458	0 100 0 0	0	100	0	0	458								

E = Exceeds the Standards M = Meets the Standards P = Partially Meets the Standards D = Does Not Meet the Standards